

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	10/775,840	Confirmation No. 1645
Applicants	:	Carey John Naquin, John R. Hardin, Jr., Chris Maranuk, Jim Estep, David Rios-Aleman, and Haoshi Song	
Filed	:	February 10, 2004	
TC/A.U.	:	3672	
Examiner	:	Thomas S. Bomar	
Title	:	Apparatus for Changing Wellbore Fluid Temperature	
Docket No.	:	1391-46000	
Client Ref. No.:	:	2003-IP-011711 USA	
Customer No. :	:	23505	
Date	:	May 22, 2007	

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**REPLY TO FINAL OFFICE ACTION DATED FEBRUARY 22, 2007**

Sir:

Please amend the above-identified application as follows and consider the following remarks in reply to the Office action dated February 22, 2007.

**Amendments to the Claims** are reflected in the listing of the claims that begins on page 2 of this paper.

**Remarks** begin on page 13 of this paper.